

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
29 September 2005 (29.09.2005)

PCT

(10) International Publication Number
WO 2005/091227 A1

(51) International Patent Classification⁷: **G06T 15/50**

(21) International Application Number:

PCT/IB2005/050791

(22) International Filing Date: 3 March 2005 (03.03.2005)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

04101030.7 12 March 2004 (12.03.2004) EP

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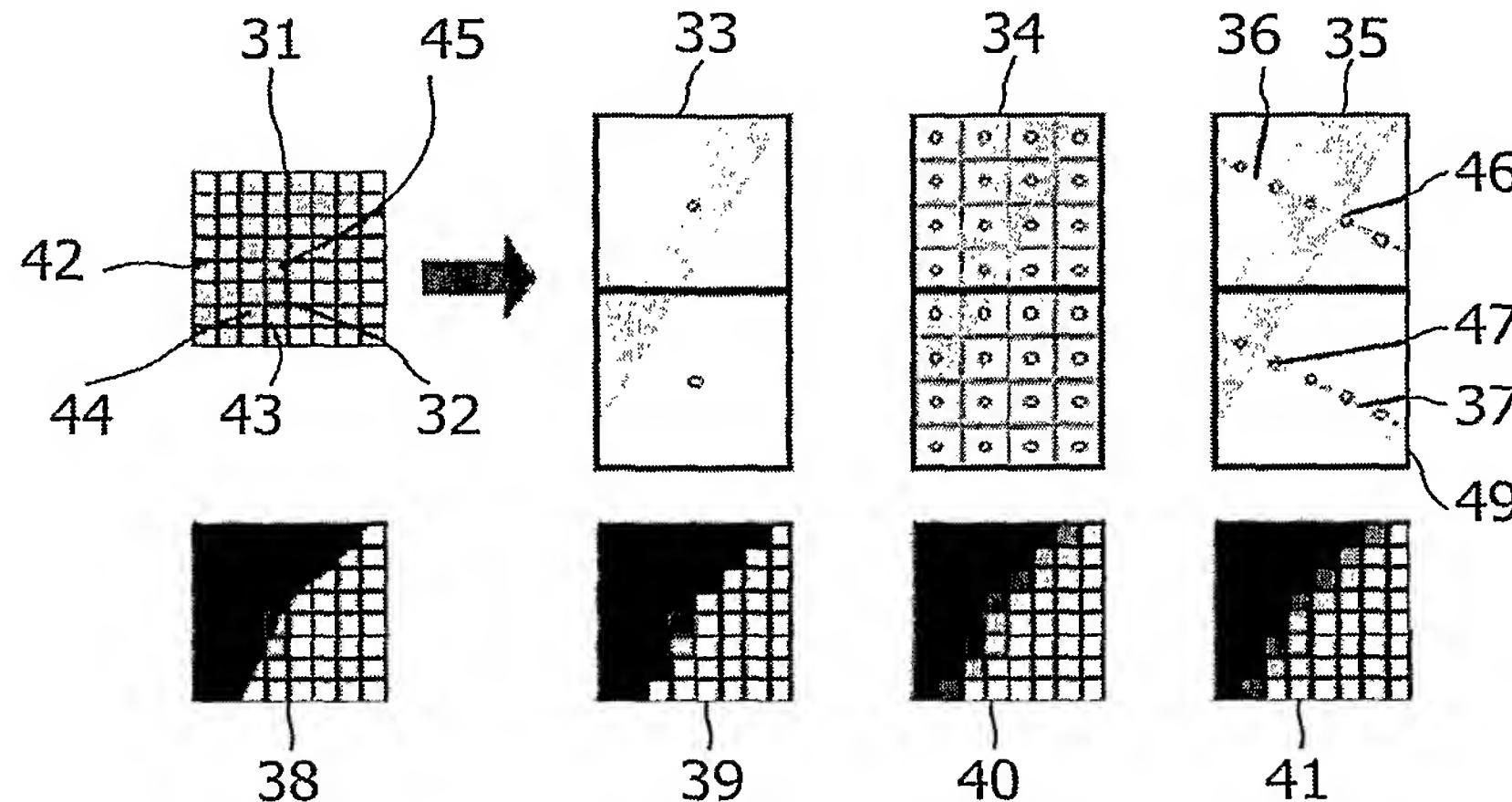
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(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH,

[Continued on next page]

(54) Title: ADAPTIVE SAMPLING ALONG EDGES FOR SURFACE RENDERING



(57) Abstract: High frequency signals cannot be reconstructed properly from sampled data if the sampling frequency lies below the Nyquist rate. The invention addresses this problem by choosing few additional sample points along a trajectory intersecting the region comprising the high frequency signals, such as an edge. Intermediate rendering data is used to determine the additional sample points. Therefore, according to an exemplary embodiment of the present invention, 4 adaptively chosen sample points per pixel may provide a visual quality comparable to 16 times super-sampling, but at a much lower computational cost.

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GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— *with international search report*

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